```
=> fil reg
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STRUCTURE FILE UPDATES:  12 NOV 94   HIGHEST RN 158930-02-0
DICTIONARY FILE UPDATES: 14 NOV 94   HIGHEST RN 158930-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 1994

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

=>
=>
=> d que l5
L3                STR
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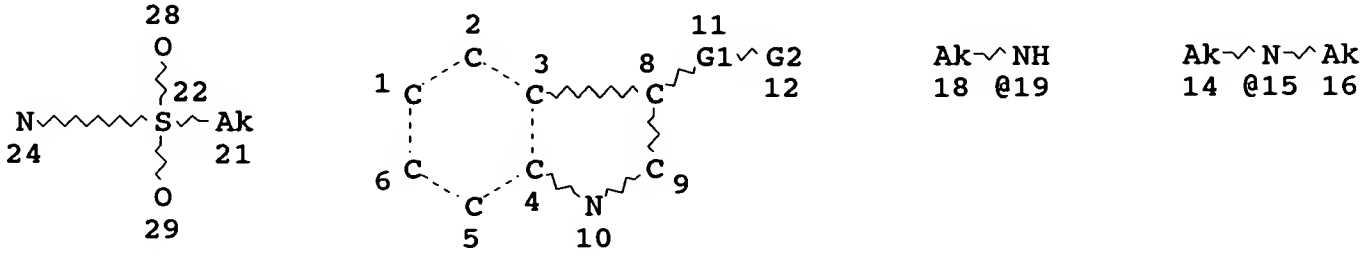


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VAR G2=NH2/15/19
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NSPEC   IS R      AT  24
CONNECT IS E1  RC AT  14
CONNECT IS E1  RC AT  16
CONNECT IS E1  RC AT  18
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  21

STEREO ATTRIBUTES: NONE
L5            22 SEA FILE=REGISTRY SSS FUL L3

=> d l5 1-22 ide can

L5   ANSWER 1 OF 22  REGISTRY  COPYRIGHT 1994 ACS
RN   157694-77-4  REGISTRY
CN   Piperazine, 1-[[[[3-(2-aminoethyl)-1H-indol-5-
     yl]oxy]methyl]sulfonyl]-4-(1-naphthalenyl)- (9CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C25 H28 N4 O3 S
CI   COM
SR   CA
LC   STN Files:   CA
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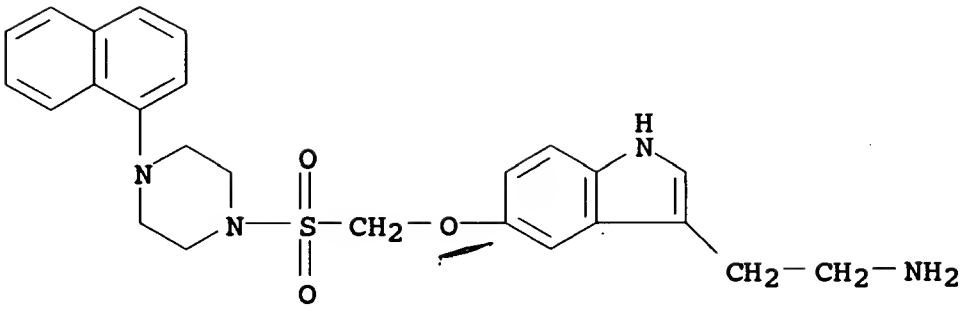
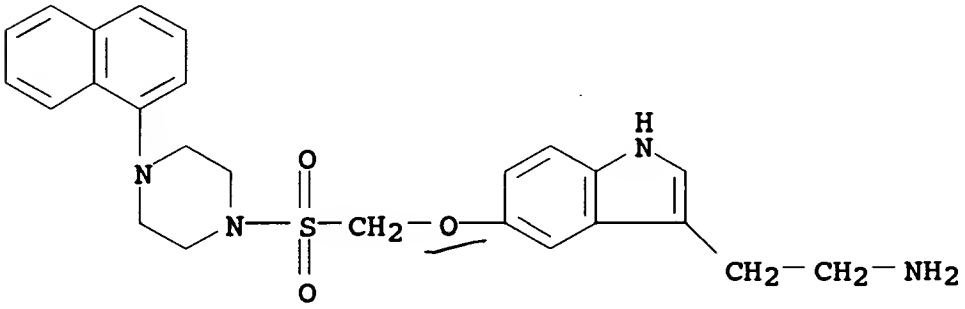


1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:179613

L5 ANSWER 2 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 157694-76-3 REGISTRY
CN Piperazine, 1-[[[[3-(2-aminoethyl)-1H-indol-5-yl]oxy]methyl]sulfonyl]-4-(1-naphthalenyl)-, hydrochloride (9CI) (CA INDEX NAME)
MF C25 H28 N4 O3 S . x Cl H
SR CA
LC STN Files: CA
CRN (157694-77-4)

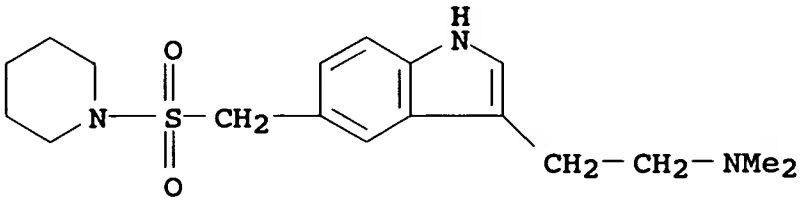


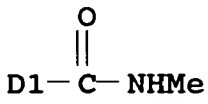
● x HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 121:179613

L5 ANSWER 3 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154360-36-8 REGISTRY
CN Piperidinecarboxamide, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-N-methyl- (9CI) (CA INDEX NAME)
MF C20 H30 N4 O3 S
CI IDS
SR CA
LC STN Files: CA
DES 8:ID,RING(C5N1)

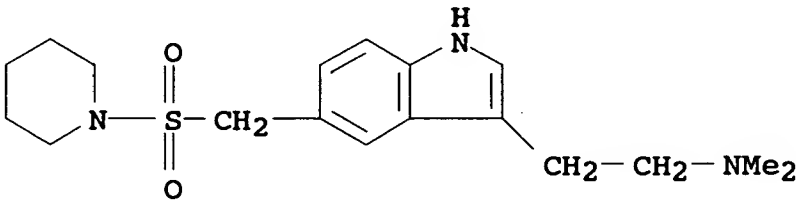


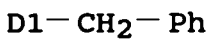


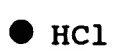
1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 4 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154360-35-7 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl](phenylmethyl)-, monohydrochloride (9CI) (CA INDEX NAME)
MF C25 H33 N3 O2 S . Cl H
CI IDS
SR CA
LC STN Files: CA
DES 8:ID,RING(C5N1)







1 REFERENCES IN FILE CA (1967 TO DATE)

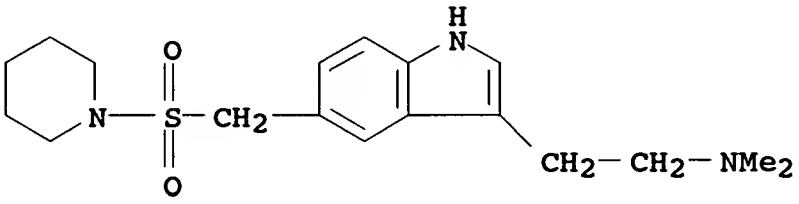
REFERENCE 1: P 120:244669

L5 ANSWER 5 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154360-34-6 REGISTRY
CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxypiperidine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxy-, butanedioate (1:1) (9CI)
MF C19 H29 N3 O3 S . C4 H6 O4
SR CA
LC STN Files: CA

CM 1

CRN 154360-33-5
CMF C19 H29 N3 O3 S
CCI IDS
CDES 8:ID,RING(C5N1)



D1—O—Me

CM 2

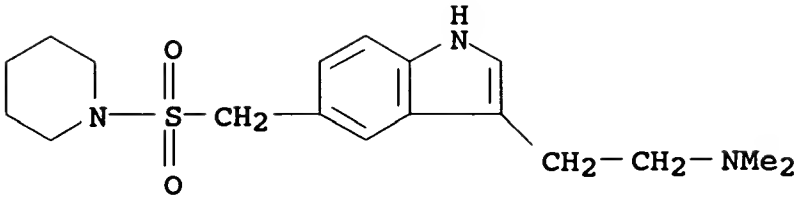
CRN 110-15-6
CMF C4 H6 O4

$HO_2C-CH_2-CH_2-CO_2H$

1 REFERENCES IN FILE CA (1967 TO DATE)

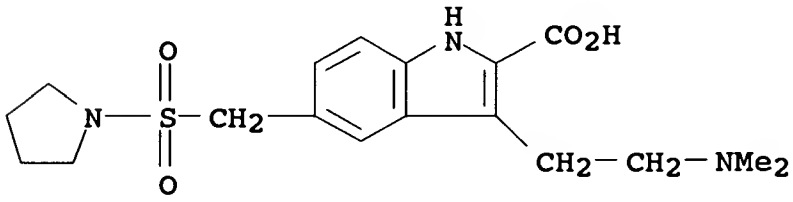
REFERENCE 1: P 120:244669

L5 ANSWER 6 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154360-33-5 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]methoxy- (9CI) (CA INDEX NAME)
MF C19 H29 N3 O3 S
CI IDS, COM
SR CA
DES 8:ID,RING(C5N1)



D1—O—Me

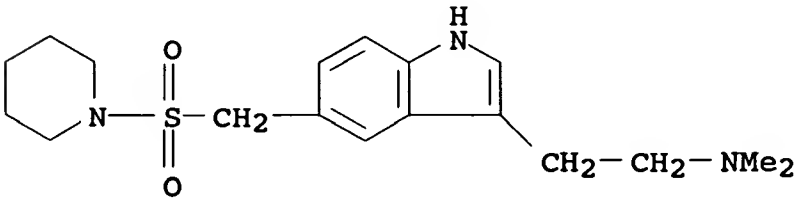
L5 ANSWER 7 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-59-8 REGISTRY
CN 1H-Indole-2-carboxylic acid, 3-[2-(dimethylamino)ethyl]-5-[(1-pyrrolidinylsulfonyl)methyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H25 N3 O4 S
SR CA
LC STN Files: CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

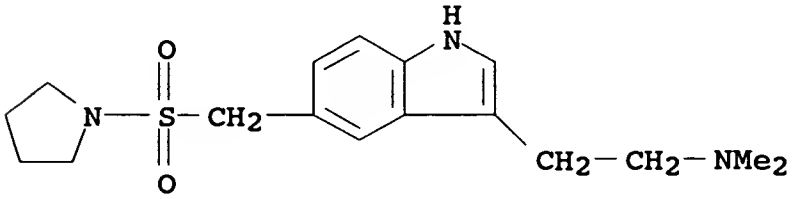
L5 ANSWER 8 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-58-7 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H27 N3 O2 S
CI COM
SR CA
LC STN Files: CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

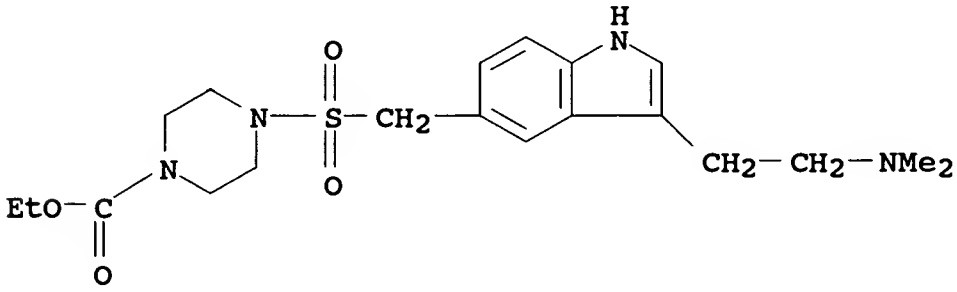
L5 ANSWER 9 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-57-6 REGISTRY
CN Pyrrolidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C17 H25 N3 O2 S
CI COM
SR CA
LC STN Files: CA



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 10 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-56-5 REGISTRY
CN 1-Piperazinecarboxylic acid, 4-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, ethyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H30 N4 O4 S
SR CA
LC STN Files: CA



1 REFERENCES IN FILE CA (1967 TO DATE)

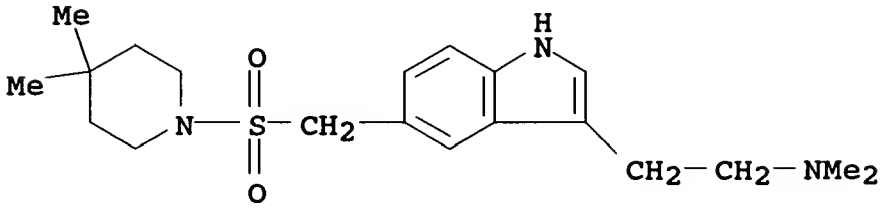
REFERENCE 1: P 120:244669

L5 ANSWER 11 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-55-4 REGISTRY
CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4,4-dimethylpiperidine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-

yl]methyl]sulfonyl]-4,4-dimethyl-, butanedioate (1:1) (9CI)
MF C20 H31 N3 O2 S . C4 H6 O4
SR CA
LC STN Files: CA

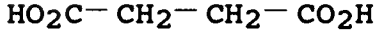
CM 1

CRN 154323-54-3
CMF C20 H31 N3 O2 S



CM 2

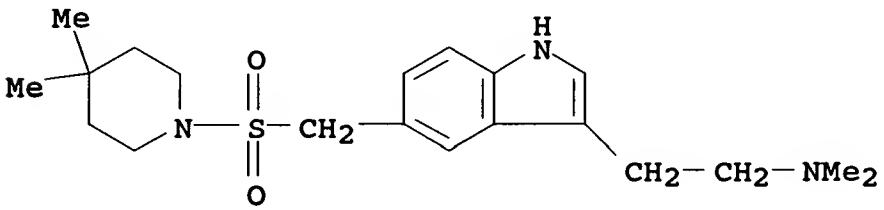
CRN 110-15-6
CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 12 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-54-3 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4,4-dimethyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H31 N3 O2 S
CI COM
SR CA

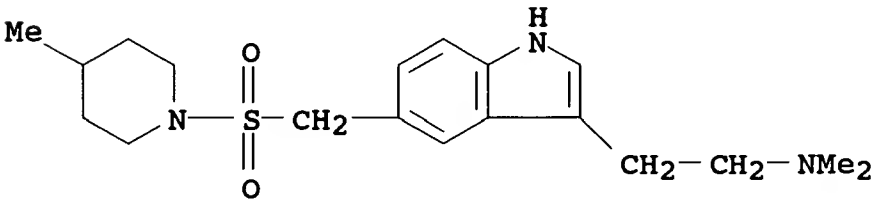


L5 ANSWER 13 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-53-2 REGISTRY
CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-

indol-5-yl]methyl]sulfonyl]-4-methylpiperidine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4-methyl-, butanedioate (1:1) (9CI)
MF C19 H29 N3 O2 S . C4 H6 O4
SR CA
LC STN Files: CA

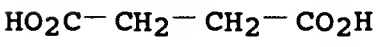
CM 1

CRN 154323-52-1
CMF C19 H29 N3 O2 S



CM 2

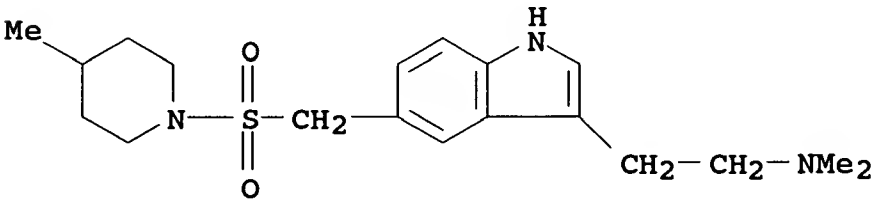
CRN 110-15-6
CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)

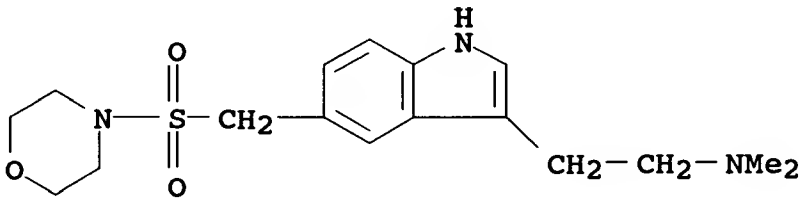
REFERENCE 1: P 120:244669

L5 ANSWER 14 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-52-1 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-4-methyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H29 N3 O2 S
CI COM
SR CA



L5 ANSWER 15 OF 22 REGISTRY COPYRIGHT 1994 ACS

RN 154323-51-0 REGISTRY
CN Morpholine, 4-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)
MF C17 H25 N3 O3 S . Cl H
SR CA
LC STN Files: CA

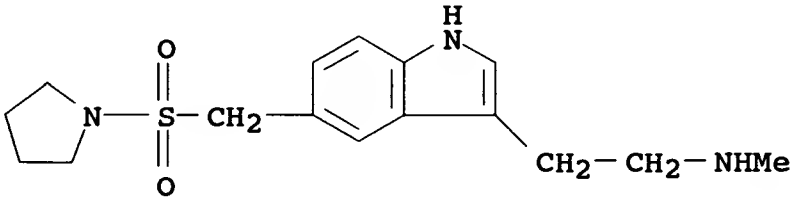


● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 16 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-50-9 REGISTRY
CN Pyrrolidine, 1-[[[3-[2-(methylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)
MF C16 H23 N3 O2 S . Cl H
SR CA
LC STN Files: CA



● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

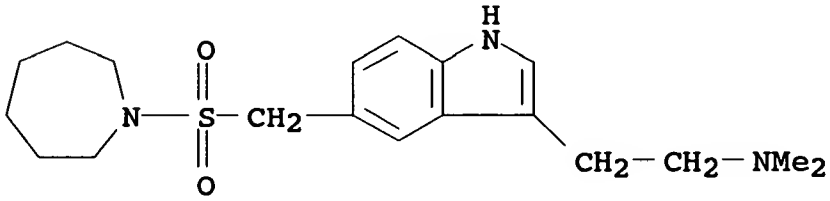
REFERENCE 1: P 120:244669

L5 ANSWER 17 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-49-6 REGISTRY
CN Butanedioic acid, compd. with 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]hexahydro-1H-azepine (1:1) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:

CN 1H-Azepine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]hexahydro-, butanedioate (1:1) (9CI)
MF C19 H29 N3 O2 S . C4 H6 O4
SR CA
LC STN Files: CA

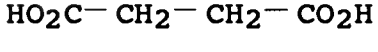
CM 1

CRN 154323-48-5
CMF C19 H29 N3 O2 S



CM 2

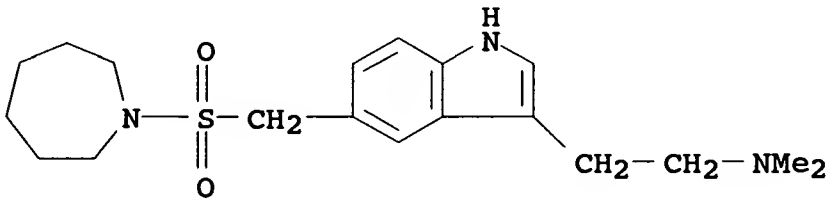
CRN 110-15-6
CMF C4 H6 O4



1 REFERENCES IN FILE CA (1967 TO DATE)

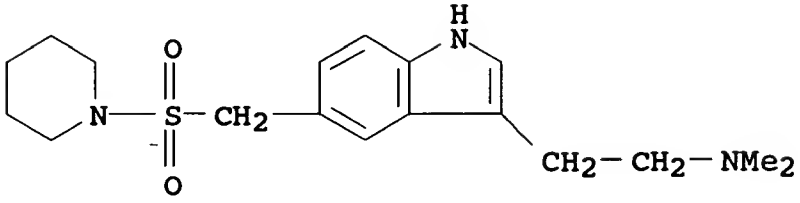
REFERENCE 1: P 120:244669

L5 ANSWER 18 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-48-5 REGISTRY
CN 1H-Azepine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]hexahydro- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H29 N3 O2 S
CI COM
SR CA



L5 ANSWER 19 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-47-4 REGISTRY
CN Piperidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)

MF C18 H27 N3 O2 S . Cl H
SR CA
LC STN Files: CA
CRN (154323-58-7)

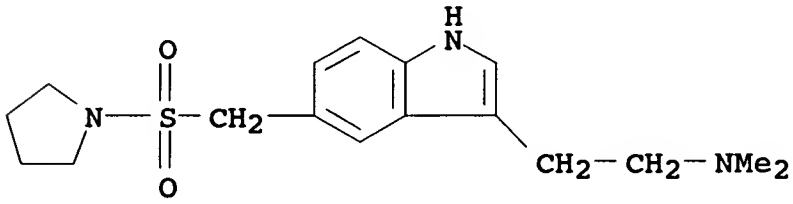


● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 120:244669

L5 ANSWER 20 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 154323-46-3 REGISTRY
CN Pyrrolidine, 1-[[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]sulfonyl]-, monohydrochloride (9CI) (CA INDEX NAME)
MF C17 H25 N3 O2 S . Cl H
SR CA
LC STN Files: CA
CRN (154323-57-6)



● HCl

1 REFERENCES IN FILE CA (1967 TO DATE)

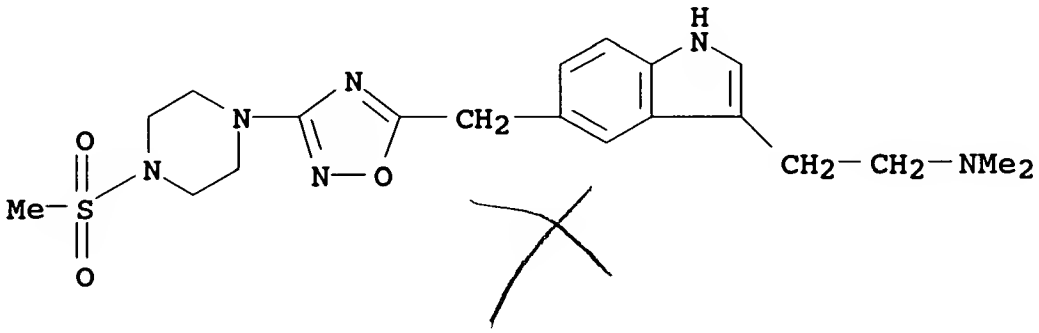
REFERENCE 1: P 120:244669

L5 ANSWER 21 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 137404-32-1 REGISTRY
CN Piperazine, 1-[5-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-1,2,4-oxadiazol-3-yl]-4-(methylsulfonyl)-, ethanedioate (1:1) (9CI) (CA INDEX NAME)
MF C20 H28 N6 O3 S . C2 H2 O4
SR CA

LC STN Files: CA

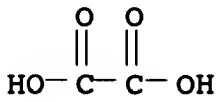
CM 1

CRN 137404-31-0
CMF C20 H28 N6 O3 S



CM 2

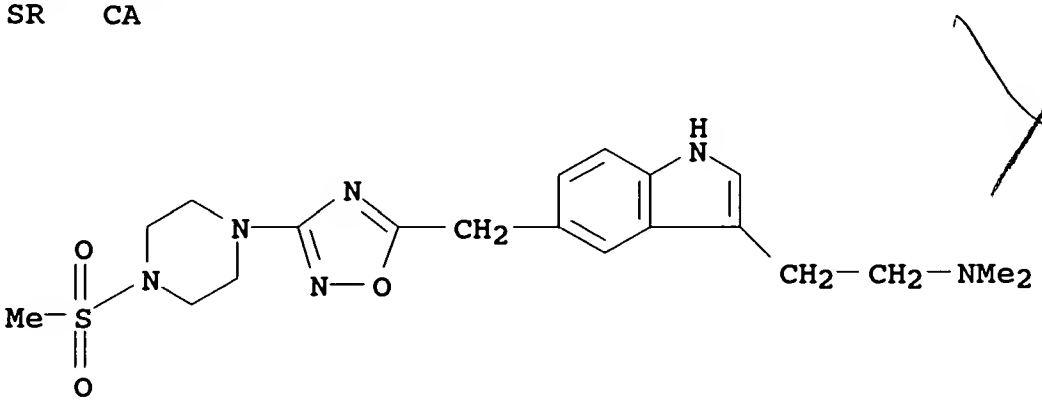
CRN 144-62-7
CMF C2 H2 O4



1 REFERENCES IN FILE CA (1967 TO DATE)

REFERENCE 1: P 116:83677

L5 ANSWER 22 OF 22 REGISTRY COPYRIGHT 1994 ACS
RN 137404-31-0 REGISTRY
CN Piperazine, 1-[5-[[3-[2-(dimethylamino)ethyl]-1H-indol-5-yl]methyl]-1,2,4-oxadiazol-3-yl]-4-(methylsulfonyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C20 H28 N6 O3 S
CI COM
SR CA



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  SmartSELECT searches with large numbers of terms.

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                DEL HIS Y

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L3                STR L1
L4              0 S L3
L5             22 S L3 FUL

     FILE 'CA' ENTERED AT 08:44:57 ON 15 NOV 94
L6              3 S L5

     FILE 'REGISTRY' ENTERED AT 08:45:59 ON 15 NOV 94

     FILE 'CA' ENTERED AT 08:47:34 ON 15 NOV 94

=> d 1-3 bib abs hitrn

L6   ANSWER 1 OF 3  CA  COPYRIGHT 1994 ACS
AN   121:179613  CA
TI   Preparation of 5-[(piperazinocarbonyl)methoxy]tryptamines and
     analogs as 5-HT receptor ligands
IN   Halazy, Serge; Perez, Michel; Briley, Michael
PA   Pierre Fabre Medicament, Fr.
SO   Fr. Demande, 53 pp.
     CODEN: FRXXBL
PI   FR 2699918 A1  940701
AI   FR 92-15919  921230
DT   Patent
LA   French
OS   MARPAT 121:179613
GI
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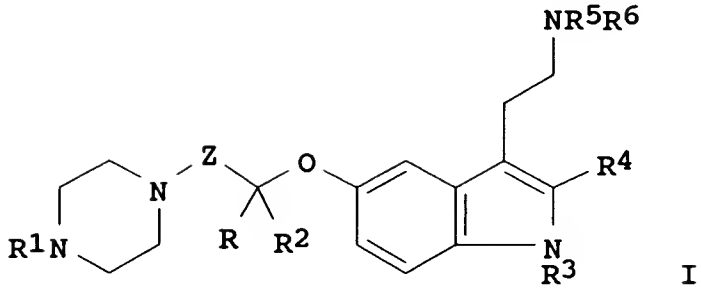
cite! TOO new LATE



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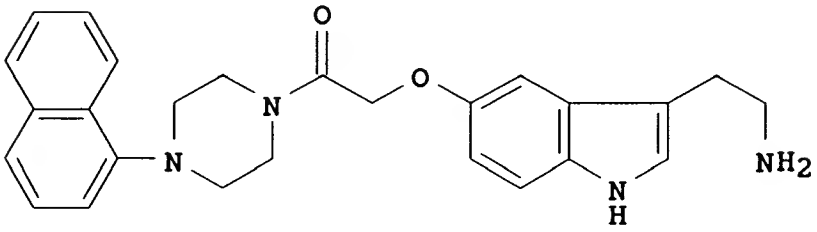


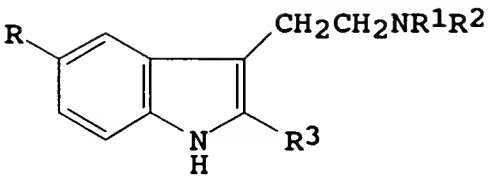
II

AB Title compds [I; R = H, alkyl, Ph; R1 = H, (cyclo)alkyl, Ph, CH2Ph, naphthyl, etc.; R2 = H, (cyclo)alkyl, Ph, CH2Ph, pyrrolyl, pyridyl, etc.; R3,R5 = H, alkyl, CH2Ph, CH2CH2Ph; R4 = H, Cl, F, Br, alkyl; R6 = H, alkyl, COR7, CO2R7, CONHR7; R7 = alkyl, (un)substituted Ph; Z = CO, SO2, (CH2)1-5] were prepd. Thus, N-(1-naphthyl)piperazine was condensed with ClCH2COCl and the product condensed with N-BOC-5-hydroxytryptamine to give, after deprotection, title compd. II which had IC50 of 115x10-9M and 3.2x10-9M against 5-HT binding at 5-HT1A and 5-HT1D receptors of sheep caudate nucleus prepn. in vitro, resp.

IT **157694-76-3P 157694-77-4P**
(prepn. of, as 5-HT receptor ligand)

L6 ANSWER 2 OF 3 CA COPYRIGHT 1994 ACS
AN 120:244669 CA
TI Preparation of [3-(2-aminoethyl)-5-indolyl]methanesulfonamides as antimigraine agents
IN Fernandez Forner, Dolors; Puig Duran, Carles; Prieto Soto, Jose; Vega Noverola, Armando; Moragues Mauri, Jacinto
PA Laboratorios Almirall S.A., Spain
SO PCT Int. Appl., 21 pp.
CODEN: PIXXD2
PI WO 9402460 A1 940203
DS W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, VN
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 93-EP1901 930719
PRAI GB 92-16009 920728
DT Patent
LA English
OS MARPAT 120:244669
GI

APP is PCT



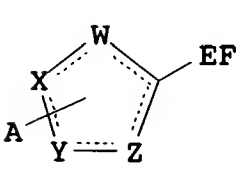
I

AB Title compds. (I; R = CH2SO2Z) [II; R1,R2 = H, alkyl; R3 = H; Z = morpholino, (substituted)piperidino, pyrrolidino, 4-(alkoxycarbonyl)piperazino, etc.] were prepd. Thus, II (R1 = R2 = Me, Z = pyrrolidino)(III; R3 = CO2H) was decarboxylated to give III (R3 = H) which had IC50 of 10.4 and 460nM against ligand binding at 5-HT1D and 5-HT1A receptors in vitro, resp.

IT **154323-46-3P 154323-47-4P 154323-49-6P**
154323-50-9P 154323-51-0P 154323-53-2P
154323-55-4P 154323-56-5P 154323-57-6P
154323-58-7P 154360-34-6P 154360-35-7P
154360-36-8P
(prepn. of, as antimigraine agent)

IT **154323-59-8**
(reaction of, in prepn. of antimigraine agent)

L6 ANSWER 3 OF 3 CA COPYRIGHT 1994 ACS
AN 116:83677 CA
TI Preparation of substituted (1,2,4-oxadiazolylindolyl)ethylamine and analogs as agonists of 5-HT1-like receptors
IN Baker, Raymond; Reeve, Austin J.; Street, Leslie J.
PA Merck Sharp and Dohme Ltd., UK
SO Eur. Pat. Appl., 58 pp.
CODEN: EPXXDW
PI EP 438230 A2 910724
DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
AI EP 91-300180 910110
PRAI GB 90-1018 900117
GB 90-8587 900417
DT Patent
LA English
OS MARPAT 116:83677
GI



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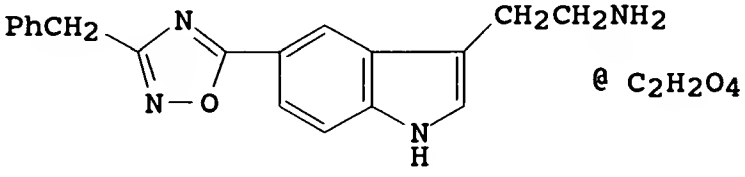

IV

AB Title compds. I [wherein the broken circle represents 2 non-adjacent double bonds in any position; W, X, Y, Z = O, S, N, C, such that 1 of W, X, Y, Z = O, S and at least 1 of W, X, Y, Z = C; A = H, hydrocarbyl, halo, NC, F3C, O2N, etc.; E = bond, C1-4 alkylene, F =

(substituted) heterocyclyl] or a salt or prodrug thereof, are prepd. NaNO2 was added to 4-(H2N)C6H4CO2Et in concd. HCl, the mixt. stirred at 0.degree. before adding SnCl2.2H2O in HCl to give 4-(H2NNH)C6H4CO2Et.HCl (II). II and 4-ClCH2(CH2)2CH(OMe)2 in EtOH/H2O were refluxed, the solvent removed and the residue chromatographed to give 2-(5-5-carbethoxy-1H-indol-3-yl)ethylamine.H maleate (III). NaH was added to phenylacetamide oxime in THF, the reaction mixt. refluxed, III was added and the whole refluxed for 2 h, the reaction mixt. cooled to room temp. to give the title compd. as the H.oxalate (IV). The activity as agonist of 5-HT1-like receptor was measured in terms of their ability to mediate contraction of the saphenous vein of rabbits, and the potency calcd. as -log10EC50 (pEC50). The pEC50 of IV was not less than 5.0. Tablet compns. comprising I are given.

IT **137404-32-1P**
(prepn. of, as 5-HT1 agonists)

=> fil caold caprev
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=> s l5
FILE 'CAOLD'
L7 0 L5

FILE 'CAPREVIEWS'
L8 0 L5

TOTAL FOR ALL FILES
L9 0 L5

=> fil reg
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DICTIONARY FILE UPDATES: 14 NOV 94 HIGHEST RN 158930-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 1994

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=> fil casrea
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FILE CONTENT: 1985-1994 (VOL 102 ISS 1 - VOL 121 ISS 17)

 >>>  Several important enhancements to CASREACT functional group     <<<
 >>>  searching were introduced.  Enter HELP FGA or HELP FGC for more <<<
 >>>  information.                                                     <<<

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L1                STR
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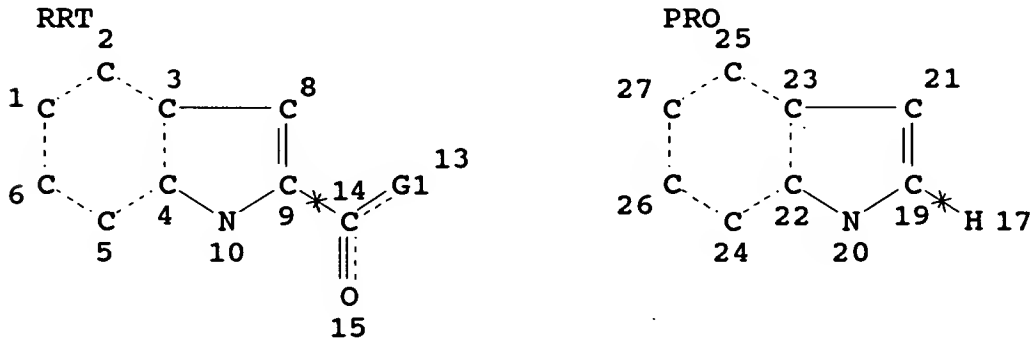


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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS  22

STEREO ATTRIBUTES: NONE

****MAPPINGS****
NOD SYM       ROL     NOD SYM       ROL
  9 C         RRT      19 C         PRO
 10 N         RRT      20 N         PRO
 19 C         PRO       9 C         RRT
 20 N         PRO      10 N         RRT
L3            29 SEA FILE=CASREACT SSS FUL L1 (    73 REACTIONS)
L4               STR
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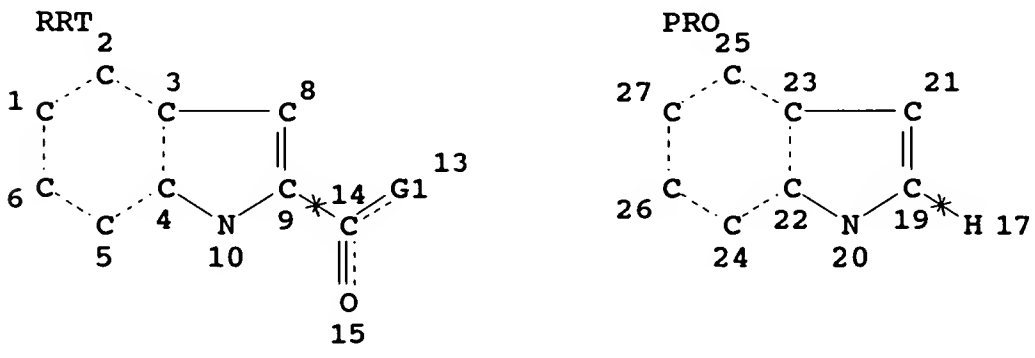
Parent Search



Subset Search to Narrow

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 22

STEREO ATTRIBUTES: NONE

****MAPPINGS****

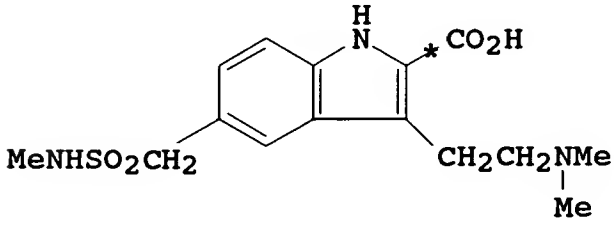
NOD	SYM	ROL	NOD	SYM	ROL
9	C	RRT	19	C	PRO
10	N	RRT	20	N	PRO
19	C	PRO	9	C	RRT
20	N	PRO	10	N	RRT

L5 17 SEA FILE=CASREACT SUB=L3 SSS FUL L4 (40 REACTIONS)

=> d l5 1-17 fhit bib abs

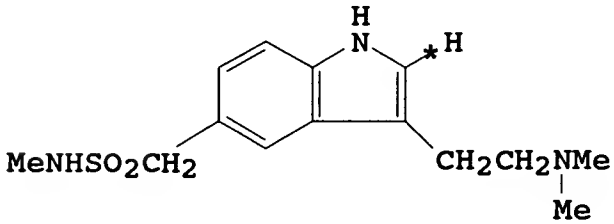
L5 ANSWER 1 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 2 **A** ===> **B**



A

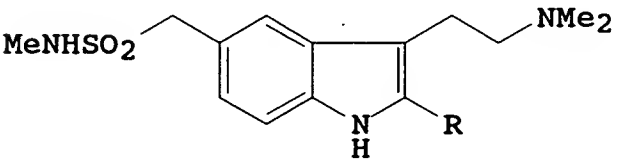
(1) →



B
YIELD 80%

RX(1) RCT A **153654-26-3**
PRO B **103628-46-2**
CAT 1317-39-1 Cu2O
SOL 91-22-5 Quinoline

NTE N atm., evolution of CO2, 205.degree.
AN 120:191533 CASREACT
TI Process for the preparation of 3-[2-(dimethylamino)ethyl]-N-methyl-1H-indole-5-methanesulfonamide [sumatriptan]
IN Dalmases Barjoan, Pere; Marquillas Olondriz, Francisco; Bosch Rovira, Anna; Caldero Ges, Jose Maria
PA Inke, S.A., Spain
SO Span., 4 pp.
CODEN: SPXXAD
PI ES 2033578 A1 930316
AI ES 91-1360 910606
DT Patent
LA Spanish
GI



I

AB The title compd. I (R = H) (II), useful for the treatment of migraine (no data), is prepd. by catalytic decarboxylation of the carboxylic acid I (R = CO2H) (III) in a solvent medium. Thus, heating of III with Cu2O in dry quinoline under N at 205.degree. for 30-40 min gave 80% II. Similar reaction using powd. Cu catalyst in a mixt. of quinoline and di-Ph ether over 1 h gave 69% II. II was also converted to its 1:1 succinate salt.

L5 ANSWER 2 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 5 **A** ===> **B**

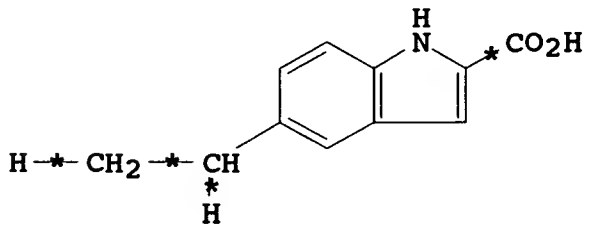
A B
YIELD 95%

RX(1) RCT A **1477-50-5**
PRO B **120-72-9**
SOL 91-22-5 Quinoline
NTE microwave
AN 119:180622 CASREACT
TI Decarboxylation of indole-2-carboxylic acids: improved procedures
AU Jones, Graham B.; Chapman, Brant J.
CS Dep. Chem., Clemson Univ., Clemson, SC, 29634-1905, USA
SO J. Org. Chem. (1993), 58(20), 5558-9

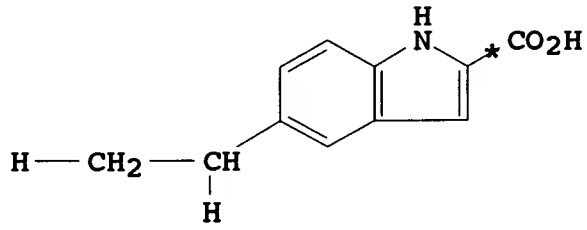
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CJACS-IMAGE; CJACS
AB The microwave induced decarboxylation of a variety of indole-2-carboxylates has been studied and accomplished. Optimal yields for decarboxylation were obtained either by conducting the thermolyses in the absence of a solvent or in quinoline soln. Yields were comparable either in the absence of a catalyst or using a catalytic amt. of either copper powder or copper (I) chloride. The copper(II) salt of indole-2-carboxylic acid, which undergoes in situ redn. to the copper(I) species was also found to be effective. Near quant. yields of decarboxylated indoles were recovered following a 12 min microwave thermolysis at 600w using a com. oven. Both methoxy and fluoro substituted indoles are amenable to the process, which is conducted in a sealed tube for best results.

L5 ANSWER 3 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 1 2 **A** ===> **B** + C

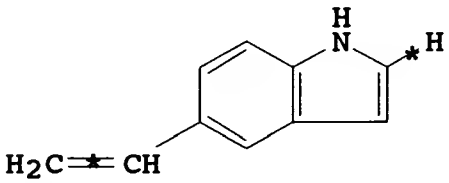


A

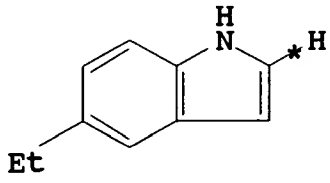


A

(1) →



B
YIELD 26%



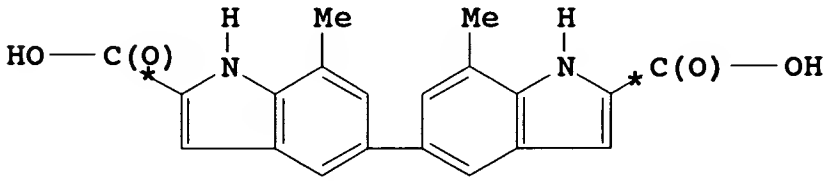
C
YIELD 14%

RX(1) RCT A **37033-93-5**
PRO B **77132-99-1**, C 68742-28-9
CAT 39320-55-3 K 16 (catalyst)
SOL 71-43-2 Benzene
AN 115:232027 CASREACT
TI The synthesis of 5-vinylindole by simultaneous dehydrogenation and decarboxylation of 5-ethylindole-2-carboxylic acid and its ethyl ester

AU Starostenko, N. E.; Phung Tien Dat; Serova, I. A.; Kamenetskii, A. V.; Suvorov, N. N.
CS Mosk. Khim.-Tekhnol. Inst., Moscow, 125047, USSR
SO Khim. Geterotsikl. Soedin. (1991), (5), 638-41
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
AB A new method of prepn. of 5-vinylindole by catalytic dehydrogenation/decarboxylation of 5-ethylindolecarboxylic acid or its Et ester over a K-16 catalyst is presented.

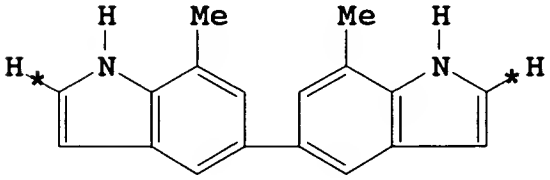
L5 ANSWER 4 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(5) OF 15 ...M ===> O



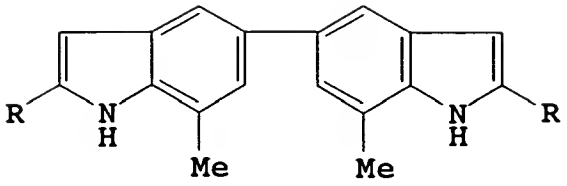
M

(5) →



O
YIELD 28%

RX(5) RCT M **129450-58-4**
PRO O **129431-59-0**
NTE heat
AN 113:131932 CASREACT
TI Bisindoles. 28. Synthesis of 7,7'-dimethyl-5,5'-bis(1H-indole)
AU Zeghough, Djidel; Kadzhrishvili, D. O.; Samsoniya, Sh. A.; Suvorov, N. N.
CS Tbilisi. Gos. Univ., Tbilisi, 380028, USSR
SO Khim. Geterotsikl. Soedin. (1990), (3), 343-5
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
GI

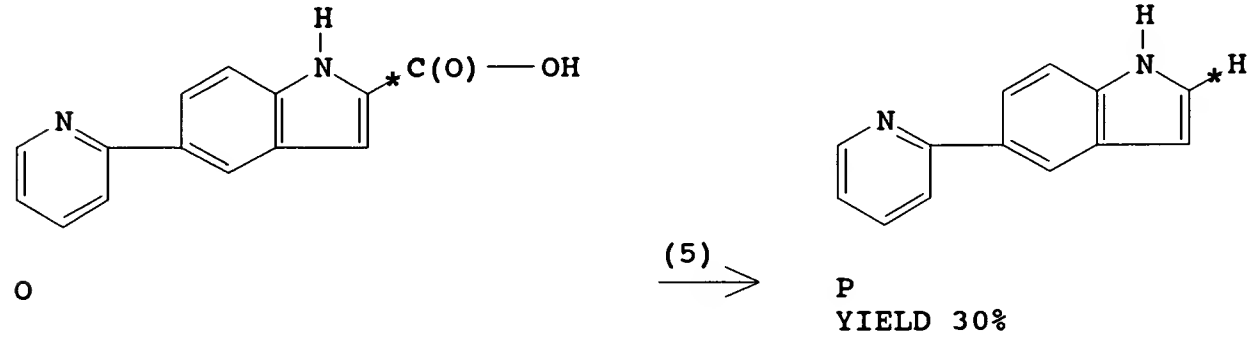


I

AB Biindoledicarboxylate I (R = CO2Et) was prepd. in 11% yield by cyclization of Et pyruvate 3,3'-dimethyl-4,4'-biphenylenehydrazone with polyphosphoric acid. Subsequent sapon. and thermal decarboxylation gave 28% I (R = H).

L5 ANSWER 5 OF 17 CASREACT COPYRIGHT 1994 ACS

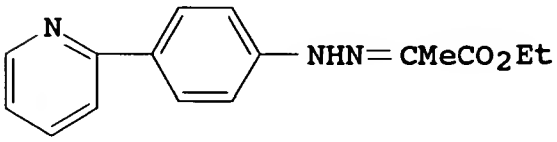
RX(5) OF 21 ...O ===> P



O P
YIELD 30%

RX(5) RCT O **121217-70-7**
PRO P **117908-10-8**
NTE thermal

AN 111:23336 CASREACT
TI Indole derivatives. 133. Synthesis of 5-(2-pyridyl)indole
AU Akhvlediani, R. N.; Khachidze, M. M.; Eraksina, V. N.; Suvorov, N. N.
CS Mosk. Khim.-Tekhnol. Inst., Moscow, 125047, USSR
SO Khim. Geterotsikl. Soedin. (1988), (11), 1476-80
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
GI

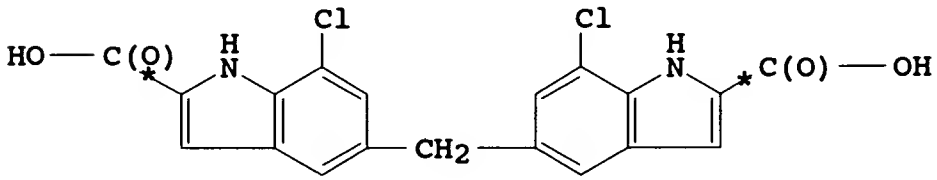


I

AB Gomberg arylation of pyridine afforded 2-(4-nitrophenyl)pyridine, which was reduced with Fe shavings in aq. NH4Cl to give hydrazone I. Japp-Klingemann indolization of I, followed by sapon. and thermal decarboxylation afforded 5-(2-pyridyl)indole.

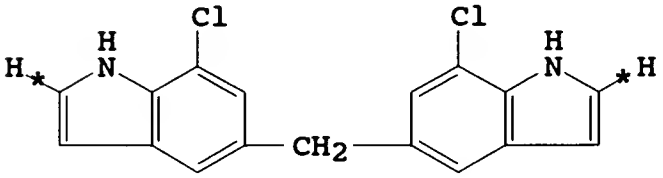
L5 ANSWER 6 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(3) OF 10 ...F ===> J



F

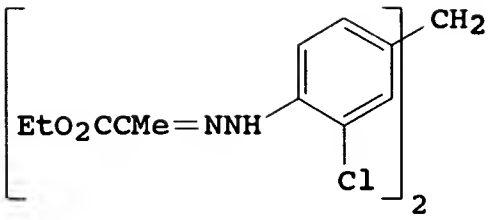
(3)



J
YIELD 52%

RX(3) RCT F **120109-52-6**
PRO J **120109-53-7**
NTE Thermal

AN 110:173037 CASREACT
TI Bisindoles. 26. Synthesis of 7,7'-dichlorobis(5-indolyl)methane
AU Zeghugh, Dzh.; Kadzhrishvili, D. O.; Samsoniya, Sh. A.; Suvorov, N. N.; Kedelashvili, N. Z.
CS Tbilisi. Gos. Univ., Tbilisi, USSR
SO Khim. Geterotsikl. Soedin. (1988), (8), 1062-5
CODEN: KGSSAQ; ISSN: 0453-8234
DT Journal
LA Russian
GI



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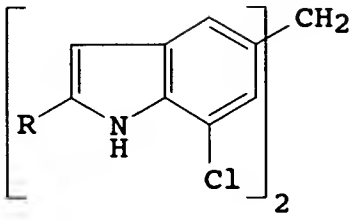
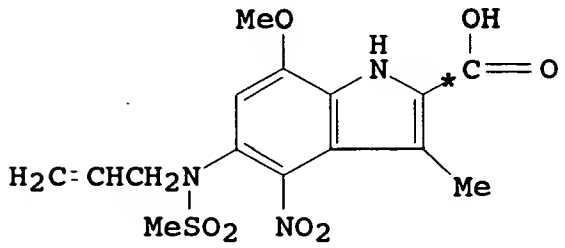


II

AB Diphenylenemethane dihydrazone I underwent polyphosphoric Et ester-promoted cyclization to bis(carbethoxyindole)methant II (R = CO2Et). The latter was sapond. and thermally decarboxylated to give title compd. II (R = H). I was obtained as a mixt. of syn-syn, syn-anti, and anti-anti isomers from the corresponding dianiline deriv. by diazotization and condensation with Et pyruvate.

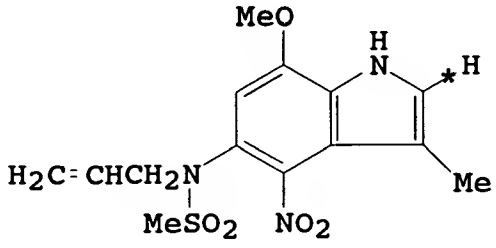
L5 ANSWER 7 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(31) OF 72 **BY** ===> **BZ**



BY

(31)



BZ
YIELD 75%

RX(31) RCT BY **116911-59-2**
RGT CA 1317-39-1 Cu2O
PRO BZ **106994-17-6**
SOL 127-19-5 AcNMe2
NTE thermal

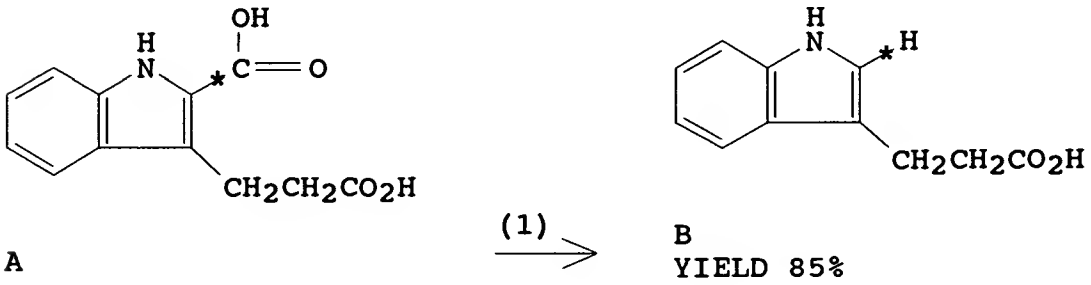
AN 109:190288 CASREACT
TI Synthesis of the left-hand ring of the antitumor antibiotic CC-1065 by an intramolecular carbenoid addition route. Synthesis and reactivity of 4-diazo-4,7-dihydroindol-7-ones and related compounds
AU Sundberg, Richard J.; Baxter, Ellen W.; Pitts, William J.; Ahmed-Schofield, Ruquia; Nishiguchi, Takeshi
CS Dep. Chem., Univ. Virginia, Charlottesville, VA, 22901, USA
SO J. Org. Chem. (1988), 53(21), 5097-107
CODEN: JOCEAH; ISSN: 0022-3263
DT Journal
LA English
OS CJACS
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I (R = H, SO2Ph; R1 = SO2Me; Z = N2) were prepd. as potential precursors for the left-hand ring of antibiotic CC-1065 (II). Redn. and diazotization of (carbethoxyoxy)nitro(propenylsulfo namide)indole III, prepd. in 7 steps from 3,4-(PhCH2O)(AcNH)C6H3NHSO2Me (IV) gave I (R = H; R1 = SO2Me; Z = N2). I (R = SO2Ph; R1 = SO2Me; Z = N2) was prepd. in 8 steps from IV analog a similar pathway. Photolysis, thermolysis, or transition metal-catalyzed decompn. of I (R1 = SO2Me, Z = N2) gave mixts. of cyclopropanes V (by intramol. carbenoid addn.) and quinones I (R1 = H, Z = O) (by O transfer from the SO2 group).

L5 ANSWER 8 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 21 ...A ===> B



A

B
YIELD 85%

RX(1) RCT A **31529-28-9**
PRO B **830-96-6**
NTE Thermal

AN 108:131499 CASREACT

TI Syntheses starting from 2-cyanocyclopentanone. Application of arylhydrazones of 5-cyano-5-oxopentanoic acid to the preparation of indole derivatives

AU Thi Anh Nga Trinh; Lamant, Maurice

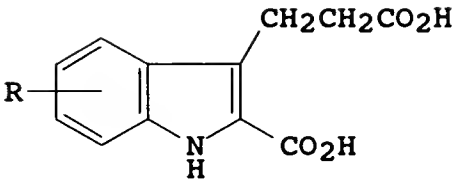
CS Lab. Chim. Org., CNRS, Nantes, 44072, Fr.

SO Bull. Soc. Chim. Fr. (1987), (2), 361-4
CODEN: BSCFAS; ISSN: 0037-8968

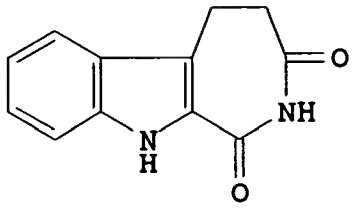
DT Journal

LA French

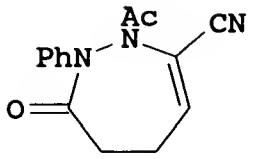
GI



II



III

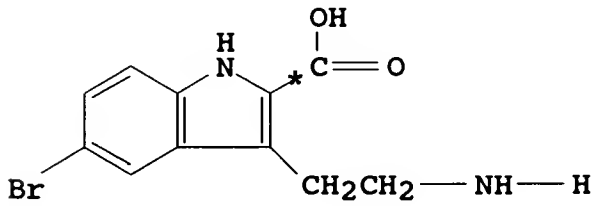


IV

AB Fischer's cyclization of (E)- and (Z)-RC6H4NHN:C(CN)(CH2)3CO2H (I; R = H, p-Me, p-Cl, p-Br, p-MeO, p-EtO, o-MeO) with HCl in EtOH affords (carboxyindolyl)propanoic acids (II) after sapon. of the intermediate amides. Treatment of I (R = p-Me, p-Cl) with ZnCl2 in AcOH, however, gives azepino[3,4-b]indoles III. I (R = H) gives oxotetrahydrodiazepine IV upon treatment with polyphosphoric acid in AcOH.

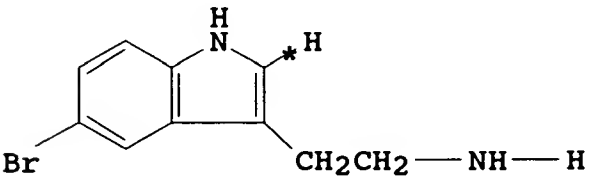
L5 ANSWER 9 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(3) OF 77 ...D ===> H...



D

(3) →

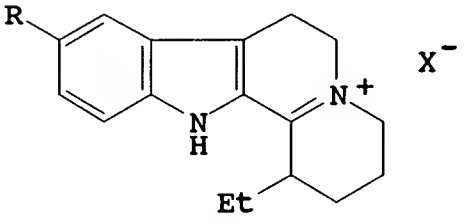


H

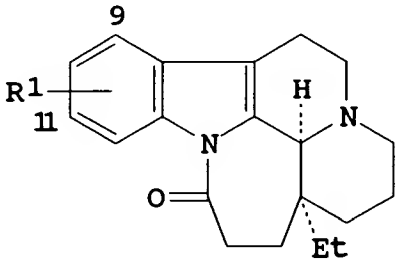
YIELD 58%

RX(3) RCT D **74058-58-5**
RGT I 7664-93-9 H2SO4

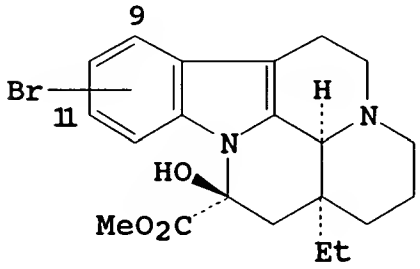
PRO H **3610-42-2**
SOL 7732-18-5 Water
AN 108:75693 CASREACT
TI Synthesis of Vinca alkaloids and related compounds. XXXIV. Synthesis of (3S,14S,16S)-bromovincamines and bromoapovincamines by regioselective bromination
AU Szabo, Lajos; Dobay, Laszlo; Kalaus, Gyorgy; Gacs-Baitz, Eszter; Tamas, Jozsef; Szantay, Csaba
CS Dep. Org. Chem., Tech. Univ., Budapest, H-1521, Hung.
SO Arch. Pharm. (Weinheim, Ger.) (1987), 320(9), 781-9
CODEN: ARPMAS; ISSN: 0365-6233
DT Journal
LA English
GI



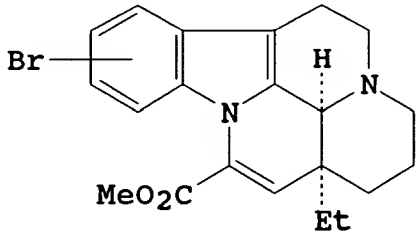
I



II



III

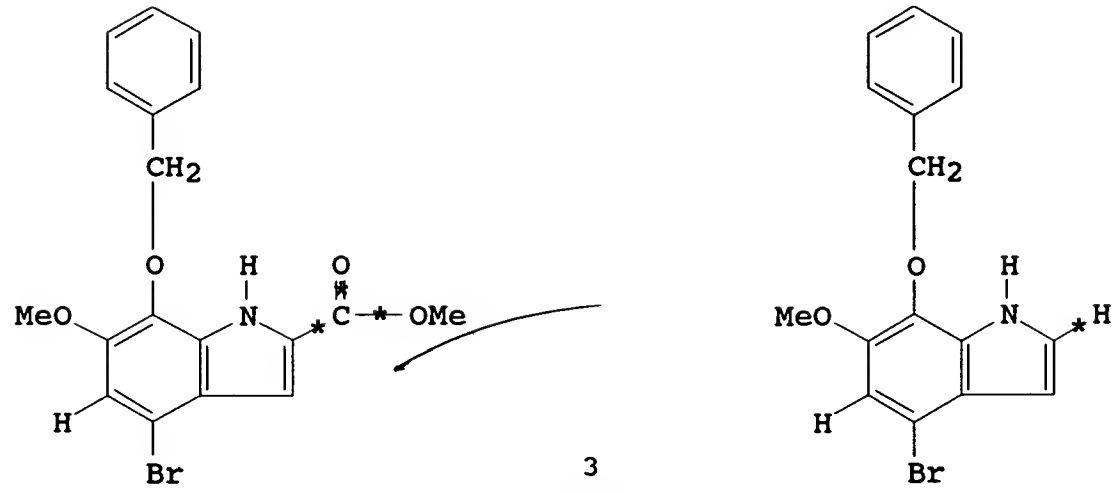


IV

AB Bromination of the iminium salt I (R = H, X = Cl) gave the 9-bromo deriv. I (R = Br, X = ClO4). Bromination of the lactam II (R1 = H) leads to a .apprx.7.5:1 mixt. of II (R1 = 11-Br, 9-Br). These precursors have been used to synthesize 9-, 10- and 11-bromovincamines III and 9-, 10- and 11-bromoapovincamines IV.

L5 ANSWER 10 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(42) OF 139 COMPOSED OF RX(5), RX(6), RX(8)
RX(42) **O** ===> **X**



O

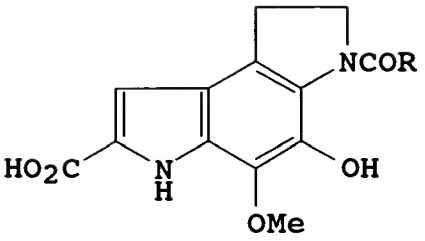
X
YIELD 70%

RX(5) RCT O **102357-87-9**
RGT R 16853-85-3 LiAlH4
PRO Q 102357-88-0
SOL 60-29-7 Et2O

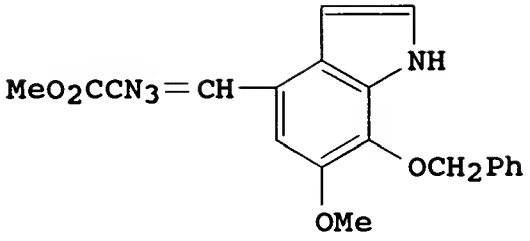
RX(6) RCT Q 102357-88-0
RGT U 1313-13-9 MnO2
PRO T 102357-89-1
SOL 75-09-2 CH2Cl2

RX(8) RCT T 102357-89-1
PRO X **102357-90-4**
CAT 13938-94-8 Rhodium, carbonylchlorobis(triphenylphosphine)-, 6737-42-4 1,3-DPPP
SOL 108-67-8 Mesitylene

AN 108:37451 CASREACT
TI Vinyl azides in heterocyclic synthesis. Part 8. Synthesis of the naturally occurring phosphodiesterase inhibitors PDE-I and PDE-II
AU Bolton, Richard E.; Moody, Christopher J.; Rees, Charles W.; Tojo, Gabriel
CS Dep. Chem., Imp. Coll. Sci. Technol., London, SW7 2AY, UK
SO J. Chem. Soc., Perkin Trans. 1 (1987), (4), 931-5
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
OS CJRSC
GI



I

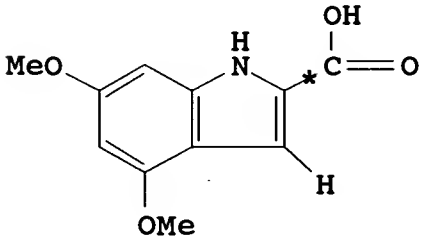


II

AB PDE-1 (I, R = NH2) and PDE-II (I, R = Me) were prepd. from isovanillin. The route involves the construction of both pyrrole rings by vinylnitrene cyclizations, the key cyclization substrates being the azidoacrylates 2,4,5-Br(MeO)(PhCH2O)C6H2CH:CN3CO2Me and II, prepd. from the aldehydes and N3CH2CO2Me. The same tricyclic intermediate is converted into both PDE-I and PDE-II by selective redn., followed by carbamoylation or acetylation resp., and deprotection.

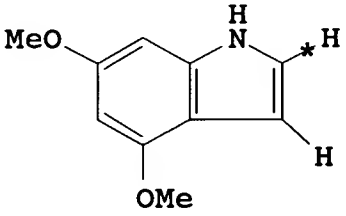
L5 ANSWER 11 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(1) OF 26 ...**A** ===> **B**



A

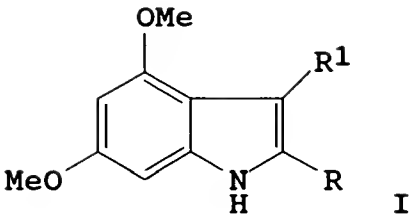
(1)



B

RX(1) RCT A **105776-11-2**
RGT C 7664-93-9 H2SO4
PRO B **23659-87-2**
SOL 64-17-5 EtOH

AN 106:18300 CASREACT
TI Synthesis of 4,6-dimethoxyindoles
AU Black, David S. C.; Kumar, Naresh; Wong, Laurence C. H.
CS Sch. Chem., Univ. New South Wales, Kensington, 2033, Australia
SO Aust. J. Chem. (1986), 39(1), 15-20
CODEN: AJCHAS; ISSN: 0004-9425
DT Journal
LA English
GI

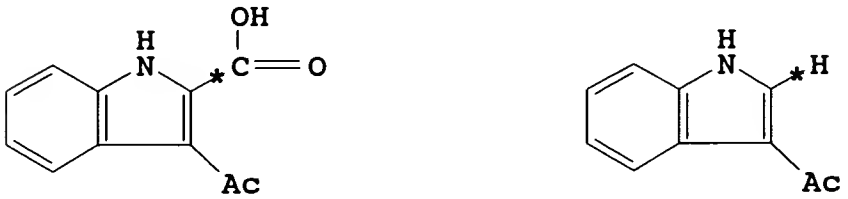


I

AB Indoles I (R = H, R1 = H, Me, Ph; R = Me, R1 = H, Me; R = CO2Me, R1 = H, CO2Me; R = CO2H, R1 = H, CO2H, R = Ph, R1 = H, Ph; R = R1 = 2-pyridinyl) were prepd. by Bischler reaction followed by derivatization.

L5 ANSWER 12 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(21) OF 36 ...**AG** ===> **AL**



AG AL

RX(21) RCT AG **105399-10-8**
PRO AL **703-80-0**
CAT 12017-79-7 Chromium copper oxide (CrCuO2)
SOL 91-22-5 Quinoline

AN 105:226259 CASREACT

TI Synthetic studies on indoles and related compounds. XII. A simple general method for the C-3 acylation of ethyl indole-2-carboxylates

AU Murakami, Yasuoki; Tani, Masanobu; Suzuki, Michio; Sudoh, Keizo; Uesato, Midori; Tanaka, Kenjiro; Yokoyama, Yuusaku

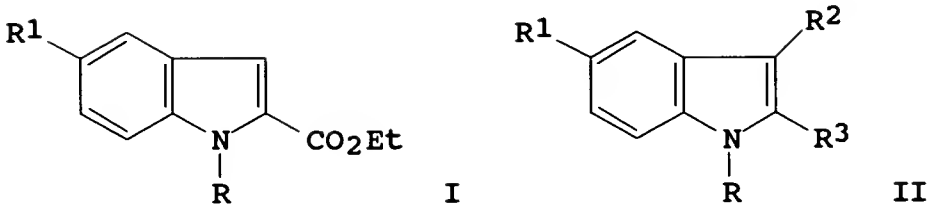
CS Sch. Pharm. Sci., Toho Univ., Funabashi, 274, Japan

SO Chem. Pharm. Bull. (1985), 33(11), 4707-16
CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

GI

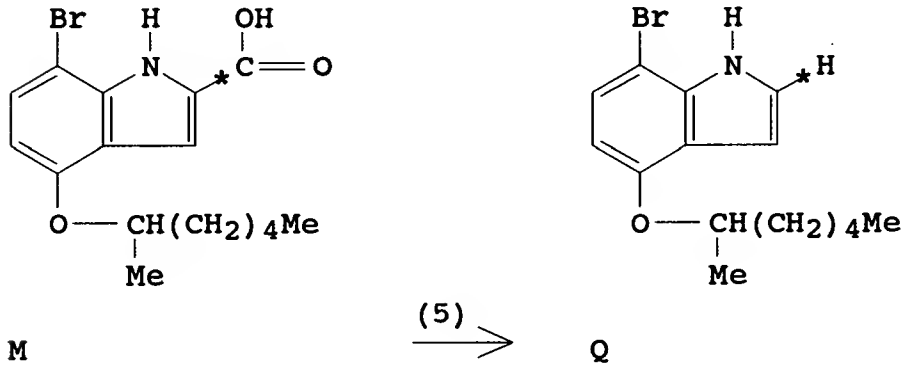


I II

AB Et indole-2-carboxylate I (R = H, PhCH2; R1 = H, MeO, Cl) were reacted with various carboxylic acids by using (CF3CO)2O and H3PO4 (or polyphosphoric acid) to yield effectively Et 3-acylindole-2-carboxylates II (R2 = e.g. Ac, Bz, Me3CCO, ClCH2CO; R3 = CO2Et). However, strongly acidic carboxylic acids and nitrogen-contg. carboxylic acids were poor acylating agents. Et 3-acylindole-2-carboxylates could easily be converted to 3-acylindoles.

L5 ANSWER 13 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(5) OF 45 ...M ===> Q...



M Q

RX(5) RCT M **102651-64-9**
PRO Q **102651-65-0**
CAT 11104-65-7 Chromium copper oxide
SOL 91-22-5 Quinoline

AN 105:172225 CASREACT

TI Synthesis and analgesic evaluation of 4-(2-heptyloxy)-7-[(Z)-(3-hydroxycyclohexyl)]indole: a caveat on indole-phenol bioisosterism

AU Soll, Richard M.; Humber, Leslie G.; Deininger, David; Asselin, Andre A.; Chau, Thuy T.; Weichman, Barry M.

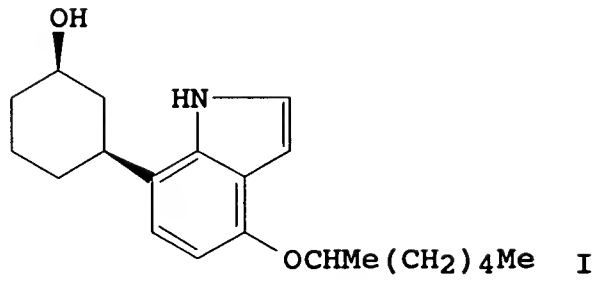
CS Chem. Pharmacol. Dep., Ayerst Lab. Res., Inc., Princeton, NJ, 08540, USA

SO J. Med. Chem. (1986), 29(8), 1457-60
CODEN: JMCMAR; ISSN: 0022-2623

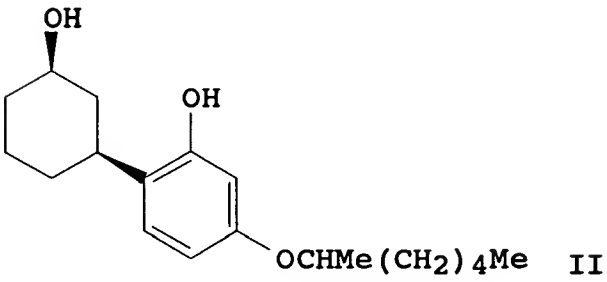
DT Journal

LA English

OS CJACS
GI



I

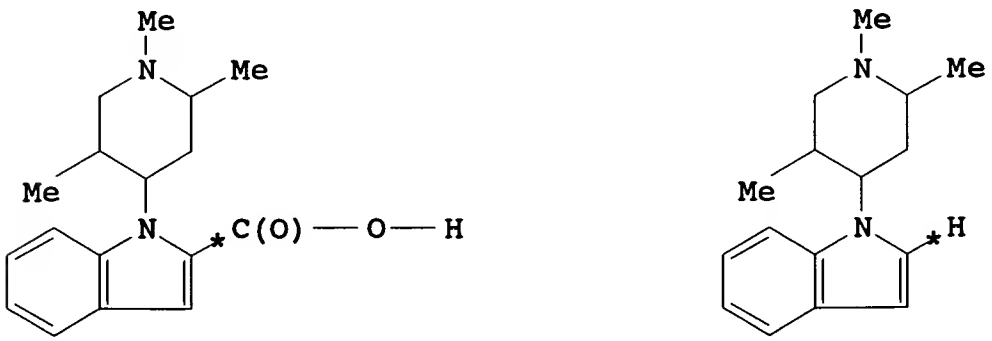


II

AB The indole I was prepd. as a bioisostere for the phenol II. I was obtained from 5,2-Br(HO)C6H3CHO via cyclization of 5,2-Br[Me(CH2)4CHMeO]C6H3CH:CN3CO2Me, decarboxylation of the resulting indole and reaction with cyclohexenone. In contrast, to II which had an ED50 of 8.3 mg/kg, s.c. I was inactive in the phenylbenzoquinone writhing test. The absence of bioisosterism between the pyrrole ring and the phenolic OH group, in this instance, is discussed in terms of the circumstances that control the manifestation of bioisofunctionality between a pyrrole ring and a phenolic OH group, which functions as a H-bond donor.

L5 ANSWER 14 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(9) OF 43 ...R ===> S



R (9) S

RX(9) RCT R **100907-63-9**
PRO S **100907-66-2**
NTE heat 205-210.degree.

AN 105:114874 CASREACT

TI Synthesis and heterocyclization of 1-phenyl-1-(1-alkyl-2,5-dimethyl-4-piperidyl)hydrazines

AU Vartanyan, R. S.; Martirosyan, V. O.; Kolozyan, K. R.; Vartanyan, S. A.

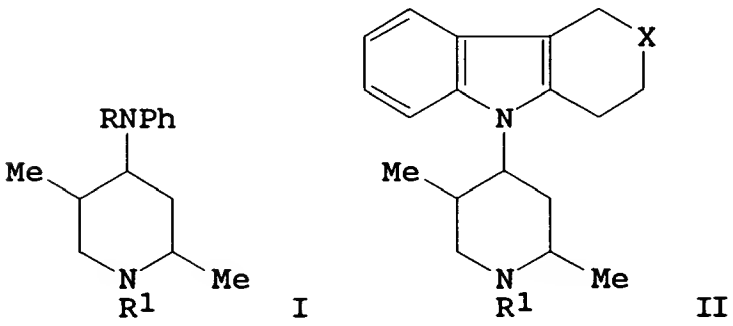
CS Inst. Tonkoi Org. Khim. im. Mndzhoyana, Yerevan, USSR

SO Arm. Khim. Zh. (1985), 38(5), 308-13
CODEN: AYKZAN; ISSN: 0515-9628

DT Journal

LA Russian

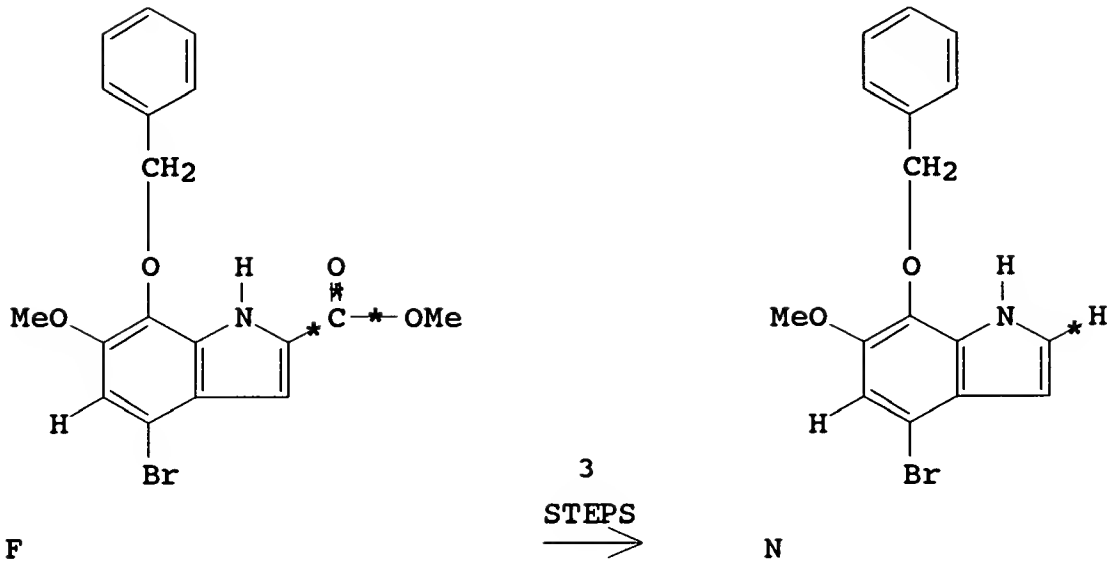
GI



AB Nitrosation of piperidines I (R = H, R1 = Me, PhCH2) by NaNO2 in aq. HCl gave N-nitroso derivs. which were reduced by LiAlH4 to give 72 and 82% hydrazines I (R = NH2) which underwent a Fischer reaction with ketones to give 60-78% carbazoles and carbolines II (R1 = Me, PhCH2, X = NMe, NCH2Ph, CH2).

L5 ANSWER 15 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(25) OF 65 COMPOSED OF RX(3), RX(4), RX(5)
RX(25) **F** ===> **N**



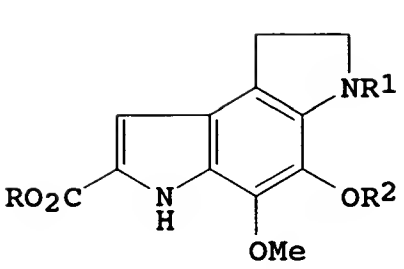
F N

RX(3) RCT F **102357-87-9**
RGT I 16853-85-3 LiAlH4
PRO H 102357-88-0
SOL 60-29-7 Et2O

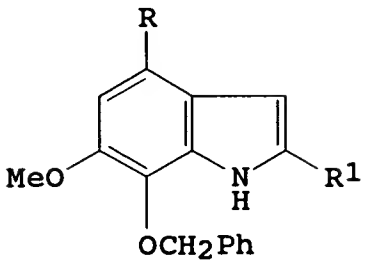
RX(4) RCT H 102357-88-0
RGT L 1313-13-9 MnO2
PRO K 102357-89-1
SOL 75-09-2 CH2Cl2

RX(5) RCT K 102357-89-1
PRO N **102357-90-4**
CAT 13938-94-8 Rhodium, carbonylchlorobis(triphenylphosphine)-, 6737-42-4 1,3-DPPP
SOL 108-67-8 Mesitylene

AN 104:224775 CASREACT
TI Synthesis of the phosphodiesterase inhibitors PDE-I and PDE-II
AU Bolton, Richard E.; Moody, Christopher J.; Rees, Charles W.; Tojo, Gabriel
CS Dep. Chem., Imp. Coll. Sci. Technol., London, SW7 2AY, UK
SO J. Chem. Soc., Chem. Commun. (1985), (24), 1775-6
CODEN: JCCCAT; ISSN: 0022-4936
DT Journal
LA English
GI



I

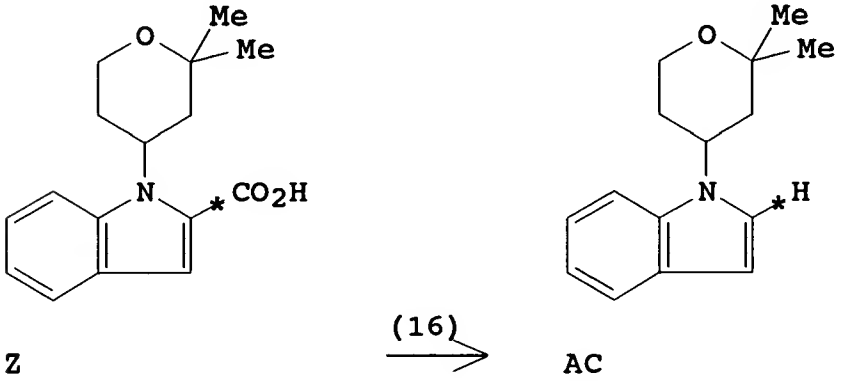


III

AB PDE-I and -II (I; R = R2 = H, R1 = CONH2, Ac, resp.), which occur in Streptomyces MD769-C6, were prepd. from 5,4,2-RBr(MeO)C6H2OCH2Ph (II; R = CHO) in 10 steps. The key steps were the cyclization of II (R = CH:CN3CO2Me) to the indole III (R = Br, R1 = CO2Me) and of the azide III (R = CH:CN3CO2Me, R1 = H) to the pyrroloindole I (R = Me, R1 = H, R2 = CH2Ph).

L5 ANSWER 16 OF 17 CASREACT COPYRIGHT 1994 ACS

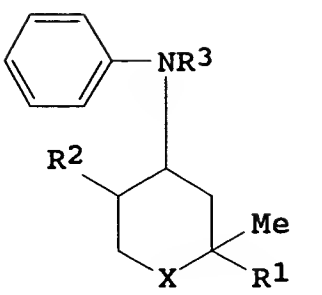
RX(16) OF 66 ...Z ===> **AC**



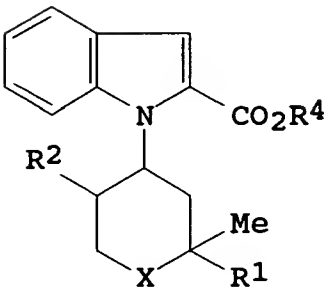
Z AC

RX(16) RCT Z **100907-61-7**
PRO AC **100907-64-0**
NTE decarboxylation

AN 104:129768 CASREACT
TI New 1-substituted indoles
AU Vartanyan, R. S.; Martirosyan, V. O.
CS Inst. Tonkoi Org. Khim., Yerevan, USSR
SO Arm. Khim. Zh. (1985), 38(7), 449-55
CODEN: AYKZAN; ISSN: 0515-9628
DT Journal
LA Russian
GI



I



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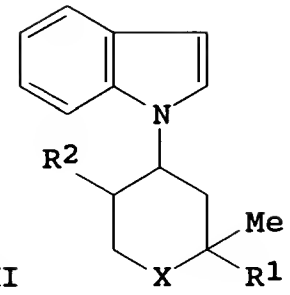
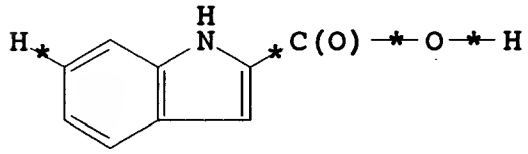


III

AB Treating heterocycles I (R1 = Me, H; R2 = H, Me; R3 = H; X = NMe, O, S) with NaNO2 in concd. HCl gave intermediate nitroso compds. I (R3 = NO), which were reduced with LiAlH4 to give 80-84% amines I (R3 = NH2). Treating the latter with MeCOCO2Me in MeOH or with MeCOCO2H gave 71-79% hydrazones I (R = N:CMeCO2Me) and 86-90% I (R = N:CMeCO2H), resp. Cyclization of the hydrazones gave 73-79% indoles II (R4 = Me), which were sapond. to give 70-84% II (R4 = H). Decarboxylation of the latter at 205-210.degree. gave 61-78% indoles III.

L5 ANSWER 17 OF 17 CASREACT COPYRIGHT 1994 ACS

RX(13) OF 263 **BA** ===> **BB** + BC...



BA

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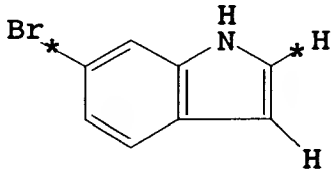

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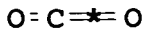

BC

RX(13) RCT BA **1477-50-5**
RGT AX 7440-50-8 Cu, AY 91-22-5 Quinoline
PRO BB **52415-29-9**, BC 124-38-9

AN 103:71643 CASREACT
TI Amino acids and peptides, XLVIII. Total synthesis and biomimetic formation of clionamide derivatives
AU Schmidt, Ulrich; Lieberknecht, Albrecht; Griesser, Helmut; Boekens, Hilmar
CS Inst. Org. Chem., Biochem. Isotopenforsch., Univ. Stuttgart, Stuttgart, D-7000/80, Fed. Rep. Ger.
SO Liebigs Ann. Chem. (1985), (4), 785-93
CODEN: LACHDL; ISSN: 0170-2041
DT Journal
LA German
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The total synthesis of tetraacetylclionamide I from amine II and (S)-tryptophan III (Boc = Me3CO2C) is described. Thus, II was condensed with III to give amide IV (RR1 = 0), which was reduced by NaCNBH3 to give a diastereoisomeric mixt. of IV (R = H, R1 = OH), which was converted to the (E)-enamide via a selenium oxide elimination reaction. II and III were prepd. by std. methods. The biomimetic prepn. of debromoclionamide deriv. V by decarboxylation of the corresponding dehydro amino acid deriv. is described.

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(FILE 'REGISTRY' ENTERED AT 08:48:32 ON 15 NOV 94)
DEL HIS Y

FILE 'CASREACT' ENTERED AT 09:12:15 ON 15 NOV 94

L1 STR
L2 2 S L1
L3 29 S L1 FUL
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L5 17 SEARC SSS FUL L4 SUB=L3

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